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7590 11/02/2005			EXAMINER	
Sang Hui Michael Kim			PARRY, CHRISTOPHER L	
BLAKELY, SC	KOLOFF, TAYLOR & .	ZAFMAN LLP		
Seventh Floor			ART UNIT	PAPER NUMBER
12400 Wilshire Boulevard			2614	
Los Angeles, CA 90025-1026			DATE MAIL ED: 11/02/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/841,644	ANDRADE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chris Parry	2614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirn will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 Se	eptember 2005.					
,	, 					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-40</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-40</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>22 September 2005</u> is/are: a)⊠ accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ratent Application (PTO-152)				

Application/Control Number: 09/841,644 Page 2

Art Unit: 2614

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claims 1, 2, 6-7, 11-12, 16-17, 21, 26, 30, and 35 have been considered but are moot in view of the new ground(s) of rejection. In response to applicant's arguments that Feinleib does not teach, "recognizing one or more elements in a broadcast data stream" the examiner respectfully disagrees.

 Feinleib teaches client 22 receives primary content from broadcast network and CPU 90 strips the non-video data in the VBI from the video signal. Closed captioning parser 110 monitors the closed captioning script or "recognizable element" for keywords and parser 110 compares each word to a list of key words in key phrase data fields 80(1)-80(s) of data structure 62 (shown in figure 5). When there is a match, the parser 110 looks up the data file for the supplemental data corresponding to the matched key phrase and retrieves the supplemental data from the key phrase data file 62 and displays the file to the user in the form of a hyperlink, trigger, or executable file.
- 2. The examiner notes the features of the Official Notice are taken to be admitted prior art because the applicant failed to traverse the examiner's assertion of Official Notice for Claims 10, 20, 29, and 38.

Specification

3. The disclosure is objected to because of the following informalities: On page 8, paragraph 36, "such a satellite source 324" should be --such as satellite source 324--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 6-9, 11-13, 16-19, 21-22, 24, 26, 28, 30-31, 33, 35, 37, 39, and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Feinleib (U.S. 6,637,032 B1).

Regarding Claim 1, Feinleib teaches, "recognizing one or more elements in a broadcast data stream" by disclosing closed captioning parser 110 is configured to monitor the closed captioning script as the video program is played to detect the key phrases or "recognizable element" listed in data file 62 (column 11, lines 5-7). Feinleib teaches, "automatically inserting an interactive TV trigger into the broadcast data stream based on the recognized elements" by disclosing when a group of words matches a key phrase in the data structure 62, the parser 110 looks up in the data file for the supplemental data or "interactive TV trigger" corresponding to the matched key phrase. In this manner the data file is an association look-up table. The supplemental data or "interactive TV trigger" is associated with the key phrases through the inherent corresponding field arrangement of the data structure 62. The parser 110 retrieves the supplemental data or "interactive TV trigger" from the key phrase data file 62 (step 132

Art Unit: 2614

in FIG. 7) (Col. 11, lines 51-59) Supplemental data in plaintext means it is a hyperlink, trigger, or executable file (Col. 12, lines 28-33).

As for Claim 2, Feinleib teaches, "pre-inserting the interactive TV trigger into any stored content that will constitute the broadcast data stream" by disclosing the authoring computer 50 creates a key phrase data file which contains the supplemental data associated with the key phrases. The key phrase data file is subsequently given to the viewer-computing units 22(1) – 22(m) for use in decoding the closed captioning script when the primary content is playing (Col. 8, lines 1-8). Feinleib further discloses the key phrase data file can be delivered by broadcasting the data file over the broadcast network used to carry the primary content (Col. 9, lines 40-44).

As for Claim 3, Feinleib teaches, "inserting TV triggers based on the recognized elements of voice in the broadcast data stream" by disclosing using closed captioning script that represents spoken words in the broadcast for the hearing impaired.

As for Claim 6, Feinleib teaches "the elements include text elements as a special degenerate case of video elements" by disclosing the closed captioning parser 110 is configured to monitor the closed captioning script as the video program is played to detect the key phrases listed in data file 62 (column 11, lines 5-7).

As for Claim 7, Feinleib teaches, "automatically inserting of the interactive TV trigger includes automatically inserting the TV trigger into the broadcast data stream based on the recognized elements" by disclosing closed captioning parser 110 monitors closed captioning script for key phrases. If a key phrase is found, then closed

Art Unit: 2614

captioning parser 110 retrieves the supplemental data and inserts the data into the stream (Col. 11, lines 51-67).

Considering Claim 8, the claimed elements of delivering the broadcast data stream with the inserted interactive TV trigger to one or more receivers for display, corresponds with subject matter mentioned above in the rejection of claim 2, and is likewise treated.

As for Claim 9, Feinleib teaches "automatically inserting of the interactive TV trigger includes automatically inserting the interactive TV trigger into the broadcast data stream within a receiver" by disclosing in figure 6, client 22 or "receiver" comprises closed captioning parser 110, which monitors the script for key phrases and retrieves supplemental data when a key phrase is found (Col. 11, lines 8-67).

As for Claim 11, Feinleib teaches "an insertion platform to insert automatically interactive TV triggers into a broadcast data stream" by disclosing in figure 6, central processing unit 90, which controls closed captioning parser 110 and key phrase data file 62 (Col. 10, line 17 – Col. 11, line 7). Further, the parser 110 retrieves the supplemental data from the key phrase data file 62 and displays supplemental data on display 100 (Col. 11, lines 51-67).

As for Claim 12, Feinleib teaches "a recognizing unit to recognize one or more elements in the broadcast data stream" by disclosing in figure 6, central processing unit 90 comprises closed captioning parser 110, which monitors the successive word groups

Art Unit: 2614

in the closed captioning script and matches phrases with key phrase data file 62 (Col. 11, lines 5-7).

Considering Claims 13, 24 and 33, the claimed elements of wherein the media asset and/or element includes a voice pattern, corresponds with subject matter mentioned above in the rejection of claim 3, and is likewise treated.

As for Claim 16, Feinleib teaches "the elements include text elements as a special degenerate case of video elements" by disclosing the closed captioning parser 110 is configured to monitor the closed captioning script as the video program is played to detect the key phrases listed in data file 62 (column 11, lines 5-7).

As for Claim 17, Feinleib teaches "automatically inserting of the interactive TV trigger includes automatically inserting the TV trigger into the broadcast data stream based on the recognized elements" by disclosing in figure 6, closed captioning parser 110, which monitors closed captioning script for key phrases. If a key phrase is found, then closed captioning parser 110 retrieves the supplemental data and inserts the data into the stream (Col. 11, lines 51-67).

Considering Claim 18, the claimed elements of a delivering unit to deliver the broadcast data stream with the inserted interactive TV trigger to one or more receivers for display, corresponds with subject matter mentioned above in the rejection of claim 2, and is likewise treated.

Considering Claim 19, the claimed elements of wherein the receivers are to insert automatically the interactive TV trigger into the broadcast data stream within,

Art Unit: 2614

corresponds with subject matter mentioned above in the rejection of claim 9, and is likewise treated.

Regarding Claim 21, Feinleib teaches "recognizing a media asset in a broadcast data stream" by disclosing closed captioning parser 110 is configured to monitor the closed captioning script as the video program is played to detect the key phrases listed in data file 62 (column 11, lines 5-7). Feinleib teaches "checking if the media asset matches with an interactive element" by disclosing as the primary content plays, the closed captioning parser 110 monitors the successive word groups in the closed captioning script to determine if there is a match (step 124 in FIG. 7). Feinleib teaches "inserting the interactive element into the broadcast data stream if the media asset matches with interactive element" by disclosing if there is a match parser 110 retrieves the supplemental data from the key phrase data file 62 (step 132 in FIG. 7) and inserts supplemental data into the broadcast stream within the receiver.

As for Claim 22, Feinleib teaches "passing the broadcast data stream to one or more receivers if the media asset does not match with an interactive element" by disclosing a key phrase data file 62 is created that is used to reference key phrases found in closed captioning script with supplemental data (Col. 7, lines 42-49). If a phrase does not match with supplemental content, then the processor 52 forwards script to client 22(1) - 22(m).

Considering Claims 26 and 35, the claimed elements of wherein the media asset and/or elements includes a text pattern as a special degenerate case of a video pattern,

Art Unit: 2614

corresponds with subject matter mentioned above in the rejection of claim 16, and is likewise treated.

Considering Claim 28, the claimed elements of wherein the interactive element includes an interactive television (TV) trigger, corresponds with subject matter mentioned above in the rejection of claim 1, and is likewise treated.

Regarding Claim 30, Feinleib teaches "a recognizing unit to recognize a media asset in a broadcast data stream" by disclosing closed captioning parser 110, which is configured to monitor the closed captioning script as the video program is played to detect the key phrases listed in data file 62 (column 11, lines 5-7). Feinleib teaches "a checking unit to check if the media asset matches with an interactive element" by disclosing as the primary content plays, the closed captioning parser 110 monitors the successive word groups in the closed captioning script (step 124 in FIG. 7) (column 11, lines 28-30) and compares the found phrases to phrases stored in key phrase data file (Col. 11, lines 28-35). Feinleib teaches "an inserting unit to insert the interactive element into the broadcast data stream if the media asset matches with interactive element" when a match is made, the parser 110 looks up in the data file for the supplemental data corresponding to the matched key phrase. In this manner, the data file is utilized as an association look-up table. The supplemental data is associated with the key phrases through the inherent corresponding field arrangement of the data structure 62. The parser 110 retrieves the supplemental data from the key phrase data file 62 (step 132 in FIG. 7) (column 11, lines 51-59). Supplemental data is then added to the broadcast data stream within the receiver.

Art Unit: 2614

Considering Claim 31, the claimed elements of a passing unit to pass the broadcast data stream to one or more receivers if the media asset does not match with an interactive element, corresponds with subject matter mentioned above in the rejection of claim 22, and is likewise treated.

Considering Claim 37, the claimed elements of wherein the interactive element includes an interactive television (TV) trigger, corresponds with subject matter mentioned above in the rejection of claim 1, and is likewise treated.

Regarding Claim 39, Feinleib discloses "recognizing a media asset in a broadcast data stream" by disclosing closed captioning parser 110, which is configured to monitor the closed captioning script as the video program is played to detect the key phrases listed in data file 62 (column 11, lines 5-7). Feinleib teaches "checking if the media asset matches with an interactive element" by disclosing as the primary content plays, the closed captioning parser 110 monitors the successive word groups in the closed captioning script (step 124 in FIG. 7) (column 11, lines 28-30) and compares the found phrases to phrases stored in key phrase data file (Col. 11, lines 28-35). Feinleib teaches. Feinleib teaches "inserting the interactive element into the broadcast data stream if the media asset matches with interactive element" when a match is made, the parser 110 looks up in the data file for the supplemental data corresponding to the matched key phrase. In this manner, the data file is utilized as an association look-up table. The supplemental data is associated with the key phrases through the inherent corresponding field arrangement of the data structure 62. The parser 110 retrieves the supplemental data from the key phrase data file 62 (step 132 in FIG. 7) (column 11,

Art Unit: 2614

lines 51-59). Supplemental data is then added to the broadcast data stream within the receiver.

Considering Claim 40, the claimed elements of passing the broadcast data stream to one or more receivers if the media asset does not match with an interactive element, corresponds with subject matter mentioned above in the rejection of claim 22, and is likewise treated.

3. Claims 1, 11, 21, 30, and 39 are rejected under 35 U.S.C. 102(e) as being anticipated by Reynolds et al. "Reynolds" (U.S. 2001/0037500).

Regarding Claim 1, Reynolds teaches, "recognizing one or more elements in a broadcast data stream" by disclosing stripper 132 recognizes meta data 114 or "element" and removes it from signal 110 (¶ 31). Reynolds teaches, "automatically inserting an interactive TV trigger into the broadcast data stream based on the recognized elements" by disclosing processor 134 determines if substituting the meta data 114 is necessary by reviewing the specification of the announcement. If the specification allows, processor 134 will replace meta data component 114 with local meta data 142 (¶ 32-41).

Regarding Claim 11, Reynolds teaches "an insertion platform to insert automatically interactive TV triggers into a broadcast data stream" by disclosing in figure 2, meta data substitution system 100. Reynolds teaches stripper 132 removes the meta data component 114 from signal 110 and processor 134 makes the determination if local meta data should be inserted. Inserter 136 receives new local meta data from local

meta data center 140 and combines meta data with video 135 to make a new combined signal 110'.

Regarding Claim 21, Reynolds teaches, "recognizing a media asset in a broadcast data stream" by disclosing stripper 132 removes meta data component 114 from signal 110. Reynolds teaches "checking if the media asset matches with an interactive element" by disclosing processor 134 determines whether meta data component 114 can be replaced with local meta data from local meta data center 140. Reynolds teaches "inserting the interactive element into the broadcast data stream if the media asset matches with interactive element" by disclosing inserter 136 combines video 136 with local meta data 142 to output signal 110'.

Regarding Claim 30, Reynolds teaches "a recognizing unit to recognize a media asset in a broadcast data stream" by disclosing stripper 132. Reynolds teaches "a checking unit to check if the media asset matches with an interactive element" by disclosing processor 134. Reynolds teaches "an inserting unit to insert the interactive element into the broadcast data stream if the media asset matches with interactive element" by disclosing inserter 136.

Regarding Claim 39, Reynolds teaches, "recognizing a media asset in a broadcast data stream" by disclosing stripper 132 removes meta data component 114 from signal 110. Reynolds teaches "checking if the media asset matches with an interactive element" by disclosing processor 134 determines whether meta data component 114 can be replaced with local meta data from local meta data center 140. Reynolds teaches, "inserting the interactive element into the broadcast data stream if

Art Unit: 2614

the media asset matches with interactive element" by disclosing inserter 136 combines video 136 with local meta data 142 to output signal 110'.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary-skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 10, 20, 29, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feinleib.

Regarding Claims 10, 20, 29, and 38 Feinleib teaches monitoring closed captioning script for key phrases and inserting supplemental data when a key phrase is found. However, Feinleib fails to explicitly disclose using ATVEF triggers. Applicant's admission provides evidence that it is notoriously well known in the art of inserting enhanced content into the broadcast, to use ATVEF triggers as the Advanced Television Enhancement Forum Specification was developed to define the fundamentals necessary to enable creation of HTML-enhanced television content so that it can be reliably broadcast across any network to any compliant receiver. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Feinleib in order to insert interactive TV triggers that include ATVEF triggers.

Art Unit: 2614

6. Claims 4-5, 14-15, 23, 25, 27, 32, 34, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feinleib in view of Perlman (U.S. 6,577,346).

As for Claim 4, Feinleib fails to disclose inserting TV triggers based on the recognized elements of other audio elements in the broadcast data stream. In a related art pertaining to video distribution, Perlman teaches a system for recognizing a pattern in a video segment using the viewable video image data and/or the video sound or "audio elements" to identify the video segment (column 9, lines 52-55). Perlman further discloses in figure 3, after a pattern is recognized in the video segment (step 330), if a match is found in the table ("YES" in decision block 350), then the video segment is identified as being the video segment that corresponds to the pattern in the table (step 360). The management unit 102 might perform any number of functions with this identification. For example, if the video segment is identified as being a commercial for a specific product, the management unit might cause an icon to be displayed or "an interactive TV trigger be provided" on the display device 104. If the viewer selects the icon or "trigger", the management unit 102 might, for example, transmit a Web page request corresponding to the product advertised so that the viewer can obtain more information concerning the product if desired (column 7, lines 16-38). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Feinleib with the teachings of Perlman by inserting TV triggers based on the recognized elements of audio and video within the broadcast data stream. One would have been motivated to insert TV triggers based on the aforementioned recognized elements for the advantage of inserting TV triggers at any point during the

Art Unit: 2614

broadcast where enhanced content would be appropriate and closed captioning script would not be able to identify.

Considering Claim 5, the claimed elements of wherein the elements include video elements, corresponds with subject matter mentioned above in the rejection of claim 4, and is likewise treated.

Considering Claim 14, the claimed elements of wherein the elements include other audio elements, corresponds with subject matter mentioned above in the rejection of claim 4, and is likewise treated.

Considering Claim 15, the claimed elements of wherein the elements include video elements, corresponds with subject matter mentioned above in the rejection of claim 4, and is likewise treated.

Considering Claims 23 and 32, the claimed elements of wherein the media asset and/or element includes an audio pattern, corresponds with subject matter mentioned above in the rejection of claim 4, and is likewise treated.

Considering Claims 25 and 34, the claimed elements of wherein the media asset and/or element includes a video pattern, corresponds with subject matter mentioned above in the rejection of claim 4, and is likewise treated.

As for Claim 27, Feinleib teaches "checking if the media asset matches with the interactive element" by disclosing parser 110 looks up in the data file for the supplemental data or "interactive data" that corresponds to the matched phrase or "media asset". For example, if the phrase "oh hi how are you" is detected then the

Art Unit: 2614

parser retrieves the hyperlink www.greetingcardco.com which is associated with the phrase. However, Feinleib fails to disclose checking if the media asset matches with an attribute associated with the interactive element. In a related art pertaining to video distribution, Perlman discloses if a commercial segment or "media asset" is identified, the management unit or "checking unit" can display an interactive icon or "interactive element", that when selected, will provide the user with a Web page/hyperlink or "attribute" corresponding to the product that will provide more information about the advertised product. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Feinleib with the teachings of Perlman in order to check if the media asset matches with an attribute associated with the interactive element for the benefit of inserting interactive elements that match media assets in the broadcast data stream for timely delivery of enhanced content.

Considering Claim 36, the claimed elements of wherein the checking unit is to check if the media asset matches with an attribute associated with the interactive element, corresponds with subject matter mentioned above in the rejection of claim 27, and is likewise treated.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris Parry whose telephone number is (571) 272-8328. The examiner can normally be reached on Monday through Friday, 8:30 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner's Initial's:

October 31, 2005

Patent Examiner
Art Unit 2614